1116-VB-2661   **Michael Benfield*** (`mike.benfield@gmail.com`). *Geometry of hyperbolic conservation laws.*

The shock and rarefaction curves of a system of hyperbolic conservation laws have an interesting geometric structure. Several questions present themselves: Can we produce conservation laws given prescribed rarefaction curves? The shock curves for a system determine the rarefaction curves – is the converse also true? We investigate these and other questions about the geometry of hyperbolic conservation laws. (Received September 22, 2015)